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(54) FLAME-RETARDANT RESIN COMPOSITION

(57)Abstract:

PURPOSE: To improve flame retardancy, heat stability, impact resistance, and the balance of physical properties by mixing a polycarbonate resin-containing thermoplastic resin and a specified organophosphorus compound.

CONSTITUTION: To (A) 100 pts.wt. polymer blend comprising 99 to 5wt.% polycarbonate resin obtained by reacting a dihydric phenol with a polycarbonate precursor and 1 to 95wt.% thermoplastic resin other than polycarbonate resins, such as a styrene resin are added (B) 1 to 40wt.% one or more organophosphorus compounds having the formula (wherein R1 denotes an alkyl having 1 to 6 carbon atoms, (a) is 1 to 5, and (n) is 0 to 3, such as triphenyl phosphate, tricresyl phosphate, and trixylenyl phosphate, (C) at least one selected from among preferably silicones and/or fluororesins in an amount of 0.01 to 5 pts.wt. and novolak phenol resins in an amount of 1 to 30wt.%, and, if necessary, a usual flame retarder, a filler, an additive, etc. They are mixed and kneaded by an extruder for example.

